#5

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/527,191
Source: PCT
Date Processed by STIC: 02/06/2006

ENTERED

PCT

RAW SEQUENCE LISTING DATE: 02/06/2006
PATENT APPLICATION: **US/10/527,191** TIME: 14:18:13

Input Set : **A:\04 Sequence listing.txt**
Output Set: **N:\CRF4\02012006\J527191.raw**

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  3 <110> APPLICANT: NatImmune A/S
  4       Weilguny, Dietmar
  5       Kongerslev, Leif
  6       Matthiesen, Finn
  8 <120> TITLE OF INVENTION: Collectin-complement activating protein chimeras
 10 <130> FILE REFERENCE: P 703 PC00
-> 12 <140> CURRENT APPLICATION NUMBER: US/10/527,191
-> 12 <141> CURRENT FILING DATE: 2005-03-10
 12 <160> NUMBER OF SEQ ID NOS: 127
 14 <170> SOFTWARE: PatentIn version 3.1
 16 <210> SEQ ID NO: 1
 17 <211> LENGTH: 185
 18 <212> TYPE: PRT
 19 <213> ORGANISM: Mus musculus
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 24 1               5                  10                  15
 27 Leu Leu Gly Ser Lys Trp Pro Glu Pro Val Phe Gly Arg Leu Val Ser
 28             20                  25                  30
 31 Pro Gly Phe Pro Glu Lys Tyr Ala Asp His Gln Asp Arg Ser Trp Thr
 32         35                  40                  45
 35 Leu Thr Ala Pro Pro Gly Tyr Arg Leu Arg Leu Tyr Phe Thr His Phe
 36     50                  55                  60
 39 Asp Leu Glu Leu Ser Tyr Arg Cys Glu Tyr Asp Phe Val Lys Leu Ser
 40 65                  70                  75                  80
 43 Ser Gly Thr Lys Val Leu Ala Thr Leu Cys Gly Gln Glu Ser Thr Asp
 44                 85                  90                  95
 47 Thr Glu Gln Ala Pro Gly Asn Asp Thr Phe Tyr Ser Leu Gly Pro Ser
 48             100                 105                 110
 51 Leu Lys Val Thr Phe His Ser Asp Tyr Ser Asn Glu Lys Pro Phe Thr
 52         115                 120                 125
 55 Gly Phe Glu Ala Phe Tyr Ala Ala Glu Asp Val Asp Glu Cys Arg Val
 56     130                 135                 140
 59 Ser Leu Gly Asp Ser Val Pro Cys Asp His Tyr Cys His Asn Tyr Leu
 60 145                 150                 155                 160
 63 Gly Gly Tyr Tyr Cys Ser Cys Arg Ala Gly Tyr Val Leu His Gln Asn
 64                 165                 170                 175
 67 Lys His Thr Cys Ser Glu Gln Ser Leu
 68             180                 185
 71 <210> SEQ ID NO: 2
 72 <211> LENGTH: 244
 73 <212> TYPE: PRT
 74 <213> ORGANISM: Mus musculus
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Input Set : **A:\04 Sequence listing.txt**
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76 <400> SEQUENCE: 2
78 Met Ser Ile Phe Thr Ser Phe Leu Leu Leu Cys Val Val Thr Val Val
79 1               5                  10                  15
82 Tyr Ala Glu Thr Leu Thr Glu Gly Val Gln Asn Ser Cys Pro Val Val
83             20                  25                  30
86 Thr Cys Ser Ser Pro Gly Leu Asn Gly Phe Pro Gly Lys Asp Gly Arg
87         35                  40                  45
90 Asp Gly Ala Lys Gly Glu Lys Gly Glu Pro Gly Gln Gly Leu Arg Gly
91     50                  55                  60
94 Leu Gln Gly Pro Pro Gly Lys Val Gly Pro Thr Gly Pro Pro Gly Asn
95 65                  70                  75                  80
98 Pro Gly Leu Lys Gly Ala Val Gly Pro Lys Gly Asp Arg Gly Asp Arg
99                 85                  90                  95
102 Ala Glu Phe Asp Thr Ser Glu Ile Asp Ser Glu Ile Ala Ala Leu Arg
103             100                 105                 110
106 Ser Glu Leu Arg Ala Leu Arg Asn Trp Val Leu Phe Ser Leu Ser Glu
107         115                 120                 125
110 Lys Val Gly Lys Lys Tyr Phe Val Ser Ser Val Lys Lys Met Ser Leu
111     130                 135                 140
114 Asp Arg Val Lys Ala Leu Cys Ser Glu Phe Gln Gly Ser Val Ala Thr
115 145                 150                 155                 160
118 Pro Arg Asn Ala Glu Glu Asn Ser Ala Ile Gln Lys Val Ala Lys Asp
119                 165                 170                 175
122 Ile Ala Tyr Leu Gly Ile Thr Asp Val Arg Val Glu Gly Ser Phe Glu
123             180                 185                 190
126 Asp Leu Thr Gly Asn Arg Val Arg Tyr Thr Asn Trp Asn Asp Gly Glu
127         195                 200                 205
130 Pro Asn Asn Thr Gly Asp Gly Glu Asp Cys Val Val Ile Leu Gly Asn
131     210                 215                 220
134 Gly Lys Trp Asn Asp Val Pro Cys Ser Asp Ser Phe Leu Ala Ile Cys
135 225                 230                 235                 240
138 Glu Phe Ser Asp
142 <210> SEQ ID NO: 3
143 <211> LENGTH: 239
144 <212> TYPE: PRT
145 <213> ORGANISM: Mus musculus
147 <400> SEQUENCE: 3
149 Met Leu Leu Leu Pro Leu Leu Pro Val Leu Leu Cys Val Val Ser Val
150 1               5                  10                  15
153 Ser Ser Ser Gly Ser Gln Thr Cys Glu Asp Thr Leu Lys Thr Cys Ser
154             20                  25                  30
157 Val Ile Ala Cys Gly Arg Asp Gly Arg Asp Gly Pro Lys Gly Glu Lys
158         35                  40                  45
161 Gly Glu Pro Gly Gln Gly Leu Arg Gly Leu Gln Gly Pro Pro Gly Lys
162     50                  55                  60
165 Leu Gly Pro Pro Gly Ser Val Gly Ser Pro Gly Ser Pro Gly Pro Lys
166 65                  70                  75                  80
169 Gly Gln Lys Gly Asp His Gly Asp Asn Arg Ala Ile Glu Glu Lys Leu
170                 85                  90                  95
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Input Set : **A:\04 Sequence listing.txt**
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173 Ala Asn Met Glu Ala Glu Ile Arg Ile Leu Lys Ser Lys Leu Gln Leu
174             100                 105                 110
177 Thr Asn Lys Leu His Ala Phe Ser Met Gly Lys Lys Ser Gly Lys Lys
178         115                 120                 125
181 Leu Phe Val Thr Asn His Glu Lys Met Pro Phe Ser Lys Val Lys Ser
182     130                 135                 140
185 Leu Cys Thr Glu Leu Gln Gly Thr Val Ala Ile Pro Arg Asn Ala Glu
186 145                 150                 155                 160
189 Glu Asn Lys Ala Ile Gln Glu Val Ala Thr Gly Ile Ala Phe Leu Gly
190                 165                 170                 175
193 Ile Thr Asp Glu Ala Thr Glu Gly Gln Phe Met Tyr Val Thr Gly Gly
194             180                 185                 190
197 Arg Leu Thr Tyr Ser Asn Trp Lys Lys Asp Glu Pro Asn Asn His Gly
198         195                 200                 205
201 Ser Gly Glu Asp Cys Val Ile Ile Leu Asp Asn Gly Leu Trp Asn Asp
202     210                 215                 220
205 Ile Ser Cys Gln Ala Ser Phe Lys Ala Val Cys Glu Phe Pro Ala
206 225                 230                 235
209 <210> SEQ ID NO: 4
210 <211> LENGTH: 652
211 <212> TYPE: PRT
212 <213> ORGANISM: Homo sapiens
214 <400> SEQUENCE: 4
216 Met Ala Thr Ser Met Gly Leu Leu Leu Leu Leu Leu Leu Leu Leu Thr
217 1               5                   10                  15
220 Gln Pro Gly Ala Gly Thr Gly Ala Asp Thr Glu Ala Val Val Cys Val
221             20                  25                  30
224 Gly Thr Ala Cys Tyr Thr Ala His Ser Gly Lys Leu Ser Ala Ala Glu
225         35                  40                  45
228 Ala Gln Asn His Cys Asn Gln Asn Gly Gly Asn Leu Ala Thr Val Lys
229     50                  55                  60
232 Ser Lys Glu Glu Ala Gln His Val Gln Arg Val Leu Ala Gln Leu Leu
233 65                  70                  75                  80
236 Arg Arg Glu Ala Ala Leu Thr Ala Arg Met Ser Lys Phe Trp Ile Gly
237                 85                  90                  95
240 Leu Gln Arg Glu Lys Gly Lys Cys Leu Asp Pro Ser Leu Pro Leu Lys
241             100                 105                 110
244 Gly Phe Ser Trp Val Gly Gly Gly Glu Asp Thr Pro Tyr Ser Asn Trp
245         115                 120                 125
248 His Lys Glu Leu Arg Asn Ser Cys Ile Ser Lys Arg Cys Val Ser Leu
249     130                 135                 140
252 Leu Leu Asp Leu Ser Gln Pro Leu Leu Pro Ser Arg Leu Pro Lys Trp
253 145                 150                 155                 160
256 Ser Glu Gly Pro Cys Gly Ser Pro Gly Ser Pro Gly Ser Asn Ile Glu
257                 165                 170                 175
260 Gly Phe Val Cys Lys Phe Ser Phe Lys Gly Met Cys Arg Pro Leu Ala
261             180                 185                 190
264 Leu Gly Gly Pro Gly Gln Val Thr Tyr Thr Thr Pro Phe Gln Thr Thr
265         195                 200                 205
```

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PATENT APPLICATION: **US/10/527,191** TIME: 14:18:13

Input Set : **A:\04 Sequence listing.txt**
Output Set: **N:\CRF4\02012006\J527191.raw**

```
268 Ser Ser Ser Leu Glu Ala Val Pro Phe Ala Ser Ala Ala Asn Val Ala
269     210                 215                 220
272 Cys Gly Glu Gly Asp Lys Asp Glu Thr Gln Ser His Tyr Phe Leu Cys
273 225                 230                 235                 240
276 Lys Glu Lys Ala Pro Asp Val Phe Asp Trp Gly Ser Ser Gly Pro Leu
277                 245                 250                 255
280 Cys Val Ser Pro Lys Tyr Gly Cys Asn Phe Asn Asn Gly Gly Cys His
281             260                 265                 270
284 Gln Asp Cys Phe Glu Gly Gly Asp Gly Ser Phe Leu Cys Gly Cys Arg
285         275                 280                 285
288 Pro Gly Phe Arg Leu Leu Asp Asp Leu Val Thr Cys Ala Ser Arg Asn
289     290                 295                 300
292 Pro Cys Ser Ser Ser Pro Cys Arg Gly Gly Ala Thr Cys Val Leu Gly
293 305                 310                 315                 320
296 Pro His Gly Lys Asn Tyr Thr Cys Arg Cys Pro Gln Gly Tyr Gln Leu
297                 325                 330                 335
300 Asp Ser Ser Gln Leu Asp Cys Val Asp Val Asp Glu Cys Gln Asp Ser
301             340                 345                 350
304 Pro Cys Ala Gln Glu Cys Val Asn Thr Pro Gly Gly Phe Arg Cys Glu
305         355                 360                 365
308 Cys Trp Val Gly Tyr Glu Pro Gly Gly Pro Gly Glu Gly Ala Cys Gln
309     370                 375                 380
312 Asp Val Asp Glu Cys Ala Leu Gly Arg Ser Pro Cys Ala Gln Gly Cys
313 385                 390                 395                 400
316 Thr Asn Thr Asp Gly Ser Phe His Cys Ser Cys Glu Glu Gly Tyr Val
317                 405                 410                 415
320 Leu Ala Gly Glu Asp Gly Thr Gln Cys Gln Asp Val Asp Glu Cys Val
321             420                 425                 430
324 Gly Pro Gly Gly Pro Leu Cys Asp Ser Leu Cys Phe Asn Thr Gln Gly
325         435                 440                 445
328 Ser Phe His Cys Gly Cys Leu Pro Gly Trp Val Leu Ala Pro Asn Gly
329     450                 455                 460
332 Val Ser Cys Thr Met Gly Pro Val Ser Leu Gly Pro Pro Ser Gly Pro
333 465                 470                 475                 480
336 Pro Asp Glu Glu Asp Lys Gly Glu Lys Glu Gly Ser Thr Val Pro Arg
337                 485                 490                 495
340 Ala Ala Thr Ala Ser Pro Thr Arg Gly Pro Glu Gly Thr Pro Lys Ala
341             500                 505                 510
344 Thr Pro Thr Thr Ser Arg Pro Ser Leu Ser Ser Asp Ala Pro Ile Thr
345         515                 520                 525
348 Ser Ala Pro Leu Lys Met Leu Ala Pro Ser Gly Ser Pro Gly Val Trp
349     530                 535                 540
352 Arg Glu Pro Ser Ile His His Ala Thr Ala Ala Ser Gly Pro Gln Glu
353 545                 550                 555                 560
356 Pro Ala Gly Gly Asp Ser Ser Val Ala Thr Gln Asn Asn Asp Gly Thr
357                 565                 570                 575
360 Asp Gly Gln Lys Leu Leu Leu Phe Tyr Ile Leu Gly Thr Val Val Ala
361             580                 585                 590
364 Ile Leu Leu Leu Leu Ala Leu Ala Leu Gly Leu Leu Val Tyr Arg Lys
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RAW SEQUENCE LISTING DATE: 02/06/2006
PATENT APPLICATION: **US/10/527,191** TIME: 14:18:13

Input Set : **A:\04 Sequence listing.txt**
Output Set: **N:\CRF4\02012006\J527191.raw**

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365         595                 600                 605
368 Arg Arg Ala Lys Arg Glu Glu Lys Lys Glu Lys Lys Pro Gln Asn Ala
369     610                 615                 620
372 Ala Asp Ser Tyr Ser Trp Val Pro Glu Arg Ala Glu Ser Arg Ala Met
373 625                 630                 635                 640
376 Glu Asn Gln Tyr Ser Pro Thr Pro Gly Thr Asp Cys
377                 645                 650
380 <210> SEQ ID NO: 5
381 <211> LENGTH: 644
382 <212> TYPE: PRT
383 <213> ORGANISM: Mus musculus
385 <400> SEQUENCE: 5
387 Met Ala Ile Ser Thr Gly Leu Phe Leu Leu Leu Gly Leu Leu Gly Gln
388 1               5                   10                  15
391 Pro Trp Ala Gly Ala Ala Ala Asp Ser Gln Ala Val Val Cys Glu Gly
392             20                  25                  30
395 Thr Ala Cys Tyr Thr Ala His Trp Gly Lys Leu Ser Ala Ala Glu Ala
396         35                  40                  45
399 Gln His Arg Cys Asn Glu Asn Gly Gly Asn Leu Ala Thr Val Lys Ser
400     50                  55                  60
403 Glu Glu Glu Ala Arg His Val Gln Gln Ala Leu Thr Gln Leu Leu Lys
404 65                  70                  75                  80
407 Thr Lys Ala Pro Leu Glu Ala Lys Met Gly Lys Phe Trp Ile Gly Leu
408                 85                  90                  95
411 Gln Arg Glu Lys Gly Asn Cys Thr Tyr His Asp Leu Pro Met Arg Gly
412             100                 105                 110
415 Phe Ser Trp Val Gly Gly Gly Glu Asp Thr Ala Tyr Ser Asn Trp Tyr
416         115                 120                 125
419 Lys Ala Ser Lys Ser Ser Cys Ile Phe Lys Arg Cys Val Ser Leu Ile
420     130                 135                 140
423 Leu Asp Leu Ser Leu Thr Pro His Pro Ser His Leu Pro Lys Trp His
424 145                 150                 155                 160
427 Glu Ser Pro Cys Gly Thr Pro Glu Ala Pro Gly Asn Ser Ile Glu Gly
428                 165                 170                 175
431 Phe Leu Cys Lys Phe Asn Phe Lys Gly Met Cys Arg Pro Leu Ala Leu
432             180                 185                 190
435 Gly Gly Pro Gly Arg Val Thr Tyr Thr Thr Pro Phe Gln Ala Thr Thr
436         195                 200                 205
439 Ser Ser Leu Glu Ala Val Pro Phe Ala Ser Val Ala Asn Val Ala Cys
440     210                 215                 220
443 Gly Asp Glu Ala Lys Ser Glu Thr His Tyr Phe Leu Cys Asn Glu Lys
444 225                 230                 235                 240
447 Thr Pro Gly Ile Phe His Trp Gly Ser Ser Gly Pro Leu Cys Val Ser
448                 245                 250                 255
451 Pro Lys Phe Gly Cys Ser Phe Asn Asn Gly Gly Cys Gln Gln Asp Cys
452             260                 265                 270
455 Phe Glu Gly Gly Asp Gly Ser Phe Arg Cys Gly Cys Arg Pro Gly Phe
456         275                 280                 285
459 Arg Leu Leu Asp Asp Leu Val Thr Cys Ala Ser Arg Asn Pro Cys Ser
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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 02/06/2006
PATENT APPLICATION: **US/10/527,191** TIME: 14:18:14

Input Set : **A:\04 Sequence listing.txt**
Output Set: **N:\CRF4\02012006\J527191.raw**

ease Note:
e of n and/or Xaa have been detected in the Sequence Listing. Please review the quence Listing to ensure that a corresponding explanation is presented in the <220> <223> fields of each sequence which presents at least one n or Xaa.

q#:15; Xaa Pos. 91,92,93,94,95,96,97,98,99,100,101,102,103,104,105,106
q#:15; Xaa Pos. 107,108,109,110,111,112,113,114,115,116
q#:75; Xaa Pos. 7
q#:114; Xaa Pos. 7

VERIFICATION SUMMARY DATE: 02/06/2006
PATENT APPLICATION: **US/10/527,191** TIME: 14:18:14

Input Set : **A:\04 Sequence listing.txt**
Output Set: **N:\CRF4\02012006\J527191.raw**

L2 M:270 C: Current Application Number differs, Replaced Current Application No
L2 M:271 C: Current Filing Date differs, Replaced Current Filing Date
1855 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:80
341 Repeated in SeqNo=15
7523 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:75 after pos.:0
12842 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:114 after pos.:0